

## FLUORINATED OPTICAL POLYMER COMPOSITION

## ABSTRACT OF THE INVENTION

5           The invention provides polymeric optical materials that can be cured in air and have low optical loss in both the C-band and the L-band of the telecommunications spectrum. The polymeric materials are made by the free radical polymerization of an at least difunctional thiol compound with an at least difunctional ethylenically unsaturated compound wherein at least one of the thiol compound and the ethylenically unsaturated compound is at least partially halogenated. The compositions of this invention may be used to fabricate planar optical waveguides with low loss and low birefringence.

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